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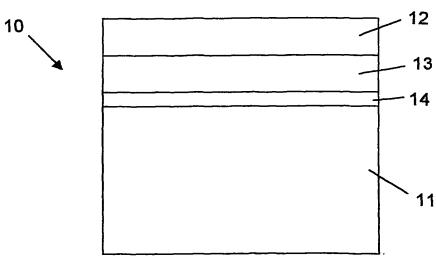
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(54) Title: METHOD OF MANUFACTURING A MULTILAYER SEMICONDUCTOR STRUCTURE WITH REDUCED OHMIC LOSSES



(57) Abstract: The present invention provides a method manufacturing a multilayer semiconductor structure featuring ohmic losses with reduced respect to standard multilayer semiconductor structures. semiconductor structure comprises a high resistivity silicon substrate with resistivity higher than 3 KΩ.cm, an active semiconductor layer and an insulating layer in between the silicon substrate and the active semiconductor The method comprises suppressing ohmic losses inside high resistivity silicon substrate by increasing, regard to prior art devices, charge trap density between the insulating

layer and the silicon substrate. In particular this may be obtained by applying an intermediate layer in between the silicon substrate and the insulating layer, the intermediate layer comprising grains having a size, wherein the mean size of the grains of the intermediate layer is smaller than 150 nm, preferably smaller than 50 nm.

